

## DEClaser 1000 and DEClaser 2000 Plus Laser Printers

Fast, Flexible and Economical Desktop Printing

**digital**



### Digital Has Laser Printers to Match Different Office Needs

Whether you need a laser printer for your personal use or for your department, Digital has just the right printer to match the way you work.

Maybe you want a compact, high-quality and economical personal printer at your fingertips—or a shared printer, fast and flexible enough to handle the printing demands of a small to medium-sized department or office. Printing PostScript® by Adobe may be important. Or maybe you're looking for double-sided printing.

DEClaser 1000 Series printers are the most compact members of the DEClaser family. These personal printers fit easily on a corner of your desk, and give you economical yet high-quality printing at a rate of four pages per minute. The DEClaser 2000 Plus Series printers produce eight pages per minute and have a higher duty cycle for shared use.

### Top Performance You Can Depend On

No matter what size laser printer your work demands, DEClaser 1000 and DEClaser 2000 Plus Series printers can do the job quickly, quietly, reliably, and economically. They are built to deliver crisp copies of everything you print—from text to graphics—time after time.



*The DEClaser 1000 and 2000 Plus Series' optional lower paper cassettes can handle 250 sheets and 200 sheets respectively.*

#### **Access from Many Systems**

Regardless of the operating environment, the DEClaser family printers are supported by the DECprint architecture for printing. This ensures the extensive use of Digital's full line of printing software for scheduling, remote or local queuing, translating, monitoring, and printing jobs and files.

DECprint Printing Services for VMS is a layered software product supporting PostScript DEClaser printers. It contains the print command interpreters and translators required to print documents formatted in a number of industry-standard or proprietary protocols (ASCII, ANSI/LN03, PostScript, DDIF, TEKTRONIX® 4010/4014, HP PCL, and Apple® LaserWriter®).

With DECprint Printing Services, you can also choose formatting features, such as laying multiple images on a single sheet, and tray and font selection. In addition, the software gives the user printer status information such as job completion or paper out.

PATHWORKS provides PC and Macintosh® users with the ability to use DEClaser Series printers. PATHWORKS even offers file sharing among different operating environments: DOS, OS/2®, Macintosh, ULTRIX, UNIX®, and VMS.

Optional AppleTalk®/Novell® Ethernet boards are also available for the DEClaser 2000 Plus family.



### Flexible and Easy To Use

DECLaser printers feature the following:

- **Superior Paper Handling:** DECLaser 1000 and 2000 Plus Series laser printers have superior paper-handling features. You can print on standard, legal, executive, or international (A4) paper sizes, as well as on labels, transparencies, and standard business envelopes. Optional paper cassettes are available to handle these sizes easily.
- **Simplex and Duplex Printing Capabilities:** DECLaser 1100, 1150, 2100 Plus, and 2150 Plus printers offer one-sided printing, while the DECLaser 2200 Plus and DECLaser 2250 Plus printers provide both one-sided and two-sided printing.
- **Optional Emulation Cartridges:** The DECLaser 1100, DECLaser 2100 Plus, and 2200 Plus offer an optional HP PCL and an IBM Proprinter 24E emulation cartridge that simplifies printing from PC software applications.\* Additional fonts are available in PCL format, including a Multifont 25 font cartridge.
- **Flexible Font Selection:** Both the DECLaser 1000 and 2000 Plus Series printers offer the same fonts as the LN03, but have triple the fonts on a single cartridge. The DECansi/Sixel font cartridges work with all DECLaser printers. Each credit-card-size font cartridge has a wide variety of letter-quality font styles and sizes. You can also choose an optional font cartridge which allows you to print bar code labels that can be scanned.

- **Easy Maintenance:** Your hands never get dirty with the DECLaser 1000 and 2000 Plus Series printers. The single supply cartridge has everything you need to keep your laser printer on line and printing. Just open the printer, pull out the old supply cartridge, and slide in the new one.

\*HP PCL emulation is available with the DECLaser 1150 (LN07R-CA), 2150 Plus (LN05R-CA), and 2250 Plus (LN06R-CA) through DECprint Printing Services for VMS. (See the Printer Protocol Chart on page 7 for a complete listing of protocol emulation capabilities for the DECLaser 1000/2000 Plus Series of printers.)

### DECLaser Printer Family Highlights

- Available in simplex and duplex models
- Paper cassettes for printing on standard, legal, A4, and executive paper sizes, transparencies, labels, and envelopes
- Small enough to fit on a desktop
- Quieter than dot-matrix and impact printers at 53 dB
- Works with applications designed to support the LN03\*
- Prints eight pages per minute (four pages per minute on DECLaser 1100 and 1150)
- Offers high-resolution print quality (300 × 300 dots per inch)
- Equipped with standard EIA-232 serial and parallel (IBM®/Centronics®) interfaces, as well as DECconnect (MMJ) adapter and cable

- Offers optional AppleTalk and Novell Ethernet boards (DECLaser 2000 Plus family only)
- Optional memory upgrade cards
- Can accommodate two optional cartridges for fonts or emulation
- Easy-to-read LCD status display with menu for printer setup and error status messages, such as "paper out"
- Optional larger-capacity input trays and output stacker on DECLaser 2000 Plus Series only
- Supports wide variety of applications via support for popular protocols and systems
- With appropriate options (accessories and software), can print LN03,\* PostScript by Adobe, HP PCL, IBM Proprinter X24E, TEKTRONIX 4010/4014, ReGIS, DDIF, and Canon™ CaPSL® files

\*Some applications written for the LN03 printer may produce slight differences in physical page appearance between LN03 and DECLaser printers.



*Digital has a laser printer to fit your style of printing, whether you print documents, business correspondence, envelopes, transparencies, etc. occasionally or constantly.*

### Supporting Software

All DECclaser printers that run on VMS can use Digital's Distributed Queuing Services (DQS) for remote printing.

ON-TAP® Bar Code Software is also available if you want to add any U.S. and international bar code symbols to documents, checks, forms, and labels using existing applications. The bar codes conform to any of 14 symbologies you choose, including UPC, EAN, Code 39 and others. This software is available in either MS-DOS® or VMS format.

### Flexible PostScript Printers With Crisper Images

All DECclaser PostScript printers have a patented image-rendering technology, DECimage, which gives you crisper edges, finer details, and greater overall quality without added hardware. And you can use this technology immediately because you don't have to modify your application.

DECimage software's programmable controls also allow you to adjust photographic functions, such as dynamic range, rendering resolution, and black-and-white punch factors, with a simple command. You can change these parameters without modifying your applications or changing your critical data files.

### A Choice of Many Fonts

Forty-three resident fonts are included within Digital's DECclaser PostScript printers. These fonts are used in Digital and industry-standard applications. With DECclaser PostScript printers, you can access more than 4,000 PostScript applications written to support PCs and UNIX, VMS, and ULTRIX environments. And you also get compatibility with Apple LaserWriter printing through PATHWORKS for Macintosh software.

### PostScript Support

With industry-standard PostScript by Adobe, you can integrate multiple type styles with graphics; rotate, enlarge, or reduce images; and incorporate line art, text and digitized photographs—all in one document. Type images are enhanced through the inclusion of the Adobe Type Manager (ATM). And these PostScript files can be printed anywhere on the network—in UNIX, ULTRIX, MS-DOS, OS/2, Macintosh and VMS environments—whether the printers are local or remote.

The DECclaser 1150, 2150 Plus, and 2250 Plus PostScript printers, supported by DECprint Printing Services for VMS, can be ordered with or without a VMS software license. DECprint Printing Services software is not needed if you will be using these printers with a PC, or with ULTRIX or UNIX systems.

You can also upgrade the DECclaser 1100, 2100 Plus and 2200 Plus printers to print PostScript files by adding an optional customer-installable PostScript upgrade kit.

### DECclaser 1000 Series: Flexible Laser Printing at Your Fingertips

DECclaser 1000 Series printers offer personal printing with multiple protocol capabilities. You get the best of Digital's larger DECclaser printers in a compact unit that fits easily on a corner of your desk, gives you up to four sharp copies per minute, and is easy to use. DECclaser 1000 printers are the right choice when you do not have access to a shared printer or when you want to print confidential information.





*Choose DEClaser 2000 Plus Series printers to handle the varied needs of everyone in your office, such as printing graphics or two-sided copies.*

You can choose the DEClaser 1100 printer for normal office correspondence or the DEClaser 1150 printer for PostScript by Adobe printing. And you can easily upgrade the DEClaser 1100 printer later to handle PostScript printing. DEClaser 1000 Series printers give you many DEClaser 2000 Plus Series capabilities in a compact, economical and personal printer.

**DEClaser 2000 Plus Series:  
Designed for Shared Office Use**

DEClaser 2000 Plus Series printers are designed to be shared by multiple users in medium-sized offices or departments. DEClaser 2100 Plus and 2150 Plus printers can produce single-sided copies at up to eight pages per minute, with the 2150 Plus also printing PostScript by Adobe files.

With DEClaser 2200 Plus and 2250 Plus printers, you can switch between single-sided (simplex) and double-sided (duplex) printing. The 2250 Plus is also a PostScript printer.

DEClaser 2200 Plus and 2250 Plus printers come standard with two input cassettes for 8.5 × 11 inch or A4 paper, and can print on other paper sizes or types by using optional paper cassettes. The automatic envelope feeder option is ideal for office correspondence when you need first sheet, second sheet, and envelope printing.

All DEClaser 2000 Plus Series printers come standard with a manual feed slot for special needs, such as printing a single sheet of paper, envelopes, or creating transparencies.



*The DEClaser 1000 Series' optional lower paper cassette can handle 250 sheets.*

#### **Full Range of Support**

Digital has one of the most comprehensive portfolios of services in the industry, designed to support you in planning, designing, implementing, and maintaining your computer system. You can tailor the type and amount of support necessary to meet your business needs. Whatever the service solution, you benefit from a single point of contact.

#### **For More Information**

To learn more about DEClaser 1000 and DEClaser 2000 Plus Series laser printers, contact your local Digital sales representative or Authorized Digital Reseller.

## Printer Protocols

	<i>DECansi/Sixel</i>	<i>PostScript</i>	<i>HP PCL</i>	<i>IBM Proprinter</i>	<i>Canon CaPSL</i>
<b>DEClaser</b>					
1100	●	■	■	■	■
1150U	●	●	●	■	■
1150R	●	●	●	■	■
2100 Plus	●	■	■	■	■
2150U Plus	●	●	●	■	■
2150R Plus	●	●	●	■	■
2200 Plus	●	■	■	■	■
2250U Plus	●	●	●	■	■
2250R Plus	●	●	●	■	■

● = Standard, ■ = Optional

U Version = Adobe PostScript—non-VMS environment, R Version = VMS Environment (DECprint license included)

## Paper Handling

Printer Models	<i>DEClaser 1100/1150</i>	<i>DEClaser 2100/2150 Plus</i>	<i>DEClaser 2200/2250 Plus</i>
First input	50 sheets	200 sheets	200 sheets
Second input	optional lower cassette (250 sheets)	manual feed	200 sheets
Third input	N/A	N/A	optional automatic envelope feeder (50 envelopes)
Options	N/A	Large-capacity input tray (1,000 sheets) Large-capacity output stacker (500 sheets)	Large-capacity input tray (1,000 sheets) Large-capacity output stacker (500 sheets)

## Output Capacity

Printer Models	<i>DEClaser 1100/1150</i>	<i>DEClaser 2100/2150 Plus</i>	<i>DEClaser 2200/2250 Plus</i>
Face-up tray	20 sheets	20 sheets	20 sheets
Face-down tray	50 sheets	100 sheets	100 sheets



**General Specifications for DEClaser 1000 Series, DEClaser 2000 Plus Series Printers**

Print Technology	Laser xerography
Print Resolution	300 × 300 dots per inch
Paper Types	Cutsheet, labels, transparencies, envelopes
Paper-Handling Sizes	Standard: 21.6 cm × 27.9 cm (8.5 in. × 11 in.) European A4: 21.0 cm × 29.7 cm (8.3 in. × 11.7 in.) Executive: 19 cm × 26.6 cm (7.25 in. × 10.5 in.) Legal: 21.5 cm × 35.5 cm (8.5 in. × 14 in.)
Resident DECansi/Sixel Font Files	36 built-in font files on DEClaser 2200 Plus with 4 fonts: Courier 10 pt. normal portrait, Courier 10.3 pt. normal portrait, Courier 6.7 pt. normal landscape, and Elite 12 pt. normal portrait
Built-in Character Sets	Font files also include 9 character sets: ASCII, DEC Supplemental, ISO Latin-1 Supplemental, DEC Technical, DEC Special Graphics (VT10 Line Drawing), DEC 7-Bit Hebrew, DEC Hebrew Supplemental, ISO Latin-Hebrew Supplemental, and Legal
PostScript Fonts (43 Adobe scalable fonts)	Avant Garde: Book, Book Oblique, Demi, Demi Oblique Bookman: Demi, Demi Italic, Light, Light Italic Courier: Bold, Bold Oblique, Oblique Helvetica: Bold, Bold Oblique, Narrow, Narrow Bold, Narrow Bold Oblique, Narrow Oblique, Oblique Lubalin Graph: Book, Book Oblique, Demi, Demi Oblique New Century Schoolbook: Bold, Bold Italic, Italic, Roman Palatino: Bold, Bold Italic, Italic, Roman Souvenir: Demi, Demi Italic, Light, Light Italic Symbol Times: Bold, Bold Italic, Italic, Roman, Zapf Chancery Medium Italic Zapf Dingbats
<i>Communications</i>	
Baud Rate	300 baud to 19.2 KB
Data Interfaces	Serial EIA-232 with DECconnect (MMJ) adapter, 10 ft cable and Centronics parallel interface
Noise Level	53 dB (maximum when printing) 43 dB (maximum when idle)



### Specifications per Printer Model

<b>Printer Models</b>	<i>DECLaser 1100/1150</i>	<i>DECLaser 2100/2150 Plus</i>	<i>DECLaser 2200/2250 Plus</i>
Speed	up to 4 pp./min.	up to 8 pp./min.	up to 8 pp./min.
Monthly Usage	Up to 6,000	Up to 16,000	Up to 20,000
Print Modes	One side only portrait or landscape	One side only portrait or landscape	One or two sides (user-selectable) portrait or landscape
Paper Weight			
Cassette feed	60–90 g/m <sup>2</sup> (16–24 lb.)	60–80 g/m <sup>2</sup> (16–21 lb.)	60–80 g/m <sup>2</sup> (16–21 lb.)
Manual feed	N/A (16–35 lb.)	60–135 g/m <sup>2</sup> (16–35 lb.)	60–135 g/m <sup>2</sup>
Optional lower cassette	60–105 g/m <sup>2</sup> (16–28 lb.)	N/A	N/A
Resident Memory	0.5 MB standard (DECLaser 1100) 2.5 MB standard (DECLaser 1150) 2.5 MB maximum (DECLaser 1100/1150)	0.5 MB standard (DECLaser 2100 Plus) 3.5 MB standard (DECLaser 2150) 3.5 MB maximum (DECLaser 2100/2150 Plus)	1 MB standard (DECLaser 2200 Plus) 4 MB standard (DECLaser 2250 Plus) 4 MB maximum (DECLaser 2200/2250 Plus)
Optional Memory	User-installed	User-installed	User-installed
Upgrade Cards	1, 2 MB	1, 2, 3 MB	1, 2, 3 MB
Physical Characteristics <sup>1</sup>			
Width	350 mm (13.8 in.)	454 mm (17.9 in.)	454 mm (17.9 in.)
Height	204 mm (8.0 in.) 259 mm (10.2 in.) (with optional cassette feeder)	228 mm (9.0 in.)	322 mm (12.3 in.)
Depth (Body only max.)	405 mm (15.9 in.)	525 mm (20.7 in.)	665 mm (27.0 in.)
Weight (Body only)	11.5 kg (25 lb.)	20.6 kg (45.5 lb.)	30.4 kg (67.1 lb.)

<sup>1</sup>The maximum dimension is for size with A4 tray installed and with extension tray folded out.

<b>DEClaser Printer Options</b>		<b>Order Numbers</b>
IBM/Centronics parallel cable		BC19M-10
25-pin male host-to-host MMJ adapter		H8575-A
9-pin male host-to-host MMJ adapter (DEC)		H8575-B
25-pin cable-to-MMJ adapter		H8571-C
25-pin female-to-MMJ adapter (modem)		H8571-D
9-pin (PC-type)-to-MMJ adapter		H8571-J
20 mA active host with 8-pin MATE-N-LOK connector to EIA-423 DECconnect MMJ		H8673-AA
20 mA active host with RJ11 6-pin connector to EIA-232 DECconnect MMJ		H8673-AB
DECansi/Sixel-Compliant Printing Protocol Level 3 Programmer's Reference Manual		AA-PBWGA-TE
DECansi/Sixel-Compliant Printing Protocol Level 3 Programming Supplement		AA-PBWHB-TE
<i>Optional Printer Fonts</i>		
CG Times™ Proportional Spaced Font Cartridge	8,10,12,14,18,24 pt. Normal	LNXX-CA
	8,10,12 pt. Italic	
	8,10,12,18 pt. Bold	
CG Triumvirate™ Proportional Spaced Font Cartridge	8,10,12,14,18,24 pt. Normal	LNXX-CB
	8,10,12 pt. Italic	
	8,10,12,18 pt. Bold	
ITC Souvenir® & Script Proportional Spaced Font Cartridge	8,10,12,14,18,24 pt. Normal	LNXX-CC
	8,10,12 pt. Italic	
	8,10,12 pt. Bold	
	14,18 pt. Normal	
	English Embassy (Script)	
Monospaced Font Cartridge	Courier: 10 pt., Italic, includes legal characters	LNXX-CD
	Elite: 10 pt., Italic, includes legal characters	
	Letter Gothic: 10,14 pt. Normal, includes legal characters	
	10,14 pt. Italic, includes legal characters	
	OCR A: 10 pt. Normal	
	OCR B: 10 pt. Normal	
	Monospaced Swiss™ 14,18,24 pt. Normal, 18 pt. Bold	
	Bar code 3 of 9: 18 pt. Normal, 36 pt. Normal (with readable characters)	
CaPSL ROM Cartridge		LNXX-CN
Font Cartridge Lock		LAXXA-LA



## Order Numbers

<b>Printer Models</b>	<i>DEClaser</i> 1100/1150	<i>DEClaser</i> 2100/2150 Plus	<i>DEClaser</i> 2200/2250 Plus
DECansi/Sixel	LN07-CA <sup>1</sup>	LN05-CA <sup>1</sup>	LN06-CA <sup>1</sup> (PPL-3)
PostScript by Adobe	LN07U-CA <sup>1</sup>	LN05U-CA <sup>1</sup>	LN06U-CA <sup>1</sup>
PostScript by Adobe with DECprint license	LN07R-CA <sup>1</sup>	LN05R-CA <sup>1</sup>	LN06R-CA <sup>1</sup>
PS Upgrade Kit	LN07U-UA <sup>2</sup>	LN05U-UA	LN06U-UB
PS Upgrade Kit with DECprint license	LN07R-UA <sup>2</sup>	LN05R-UA	LN06R-UB
PS Card	LN07U-PS <sup>2</sup>	LNXXU-PS	LNXXU-PS
PS Card with DECprint license	LN07X-PS <sup>2</sup>	LNXXR-PS	LNXXR-PS
HP PCL & IBM Proprinter X24E emulation cartridge	LN07X-PC	LNXX-PC	LNXX-PC
Canon CaPSL	LNXX-CN	LNXX-CN	LNXX-CN
AppleTalk Board	N/A	LNXX-AT (2150 Plus)	LNXX-AT (2250 Plus)
Novell Ethernet Board	N/A	LNXX-NE	LNXX-NE
Optional PCL Fonts: <sup>3</sup>			
Multifont 25 PCL	LN07X-HT	LN07X-HT	LN07X-HT
WordPerfect™ PCL	LN07X-HW	LN07X-HW	LN07X-HW
Microsoft® Word PCL	LN07X-HM	LN07X-HM	LN07X-HM
Memory			
1 MB Card	LN07X-MA	LNXX-UC	LNXX-UC
1 MB Extension	LN07X-MC	N/A	N/A
2 MB Card	LN07X-UD	LNXX-UD	LNXX-UD
3 MB Card	N/A	LNXX-UE	LNXX-UE
Letter-Size Paper Cassette	LN07X-TC (250 sheets)	LNXX-LT (200 sheets)	LNXX-LT (200 sheets)
Legal-Size Paper Cassette	LN07X-TB (250 sheets)	LNXX-LA (200 sheets)	LNXX-LA (200 sheets)
A4-Size Paper Cassette	LN07X-TA (250 sheets)	LNXX-LB (200 sheets)	LNXX-LB (200 sheets)

<sup>1</sup>North American model number; international models are available.

<sup>2</sup>Includes HP PCL as well as Apple LaserWriter emulation.

<sup>3</sup>Works with LN07X-PC only.

**Order Numbers (continued)**

<b>Printer Models</b>	<i>DEClaser</i> 1100/1150	<i>DEClaser</i> 2100/2150 Plus	<i>DEClaser</i> 2200/2250 Plus
Executive-Size Paper Cassette	LN07X-TE (250 sheets)	LNXX-LE (200 sheets)	LNXX-LE (200 sheets)
Envelope Cassette	LN07X-TD (20 envelopes)	LNXX-LN (15 envelopes)	LNXX-LN (15 envelopes)
<b>Large Capacity Options</b>			
Large-Capacity Input Tray (1,000 sheets)	N/A	LNXX-LC <sup>1</sup>	LNXX-LC <sup>1</sup>
Large-Capacity Output Stacker (500 sheets)	N/A	LNXX-LS <sup>2</sup>	LNXX-LS <sup>2</sup>
Auto Envelope Feeder (50 envelopes)	N/A	N/A	LN06X-EF
Lower Cassette with letter tray (250 sheets)	LN07X-TF	N/A	N/A
Lower Cassette with A4 tray (250 sheets)	LN07X-TG	N/A	N/A
Cutsheet Paper (8.5 in. × 11 in., 5,000 sheets)	LN01X-AB	LN01X-AB	LN01X-AB
Transparencies (8.5 in. × 11 in., 50 sheets)	LN03X-AJ	LN03X-AJ	LN03X-AJ
Toner Cartridge	LN07X-AA	LNXX-AC	LNXX-AC
Mobile Printer Stand	LN03X-AE	N/A	N/A
Laser Printer Table (45 in. × 22 in.)	N/A	LAXXS-AE	LAXXS-AE

<sup>1</sup>220 V international model is available as order no. LNXX-LP.

<sup>2</sup>220 V international model is available as order no. LNXX-LR.

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